

Message

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Sent: 1/10/2019 10:48:03 PM
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Subject: OIMA Seminar Jan. 31st: California Environmental DNA Program: Give a Tube, Get an Ecosystem
Attachments: OIMA BB Flyer - January 31, 2019.pdf



California Water Quality Monitoring Council

The California Environmental DNA (CALeDNA) Program: Give a Tube, Get an Ecosystem
By Rachel Meyer, Executive Director of the UC Conservation Genomics Consortium, UCLA

Thursday, January 31st, 2019 | 12:00-12:30 PM
Cal EPA Building, Room 1610, 16th Floor
1001 I Street, Sacramento, CA
Remote access available – <https://meet.lync.com/cawaterboards/candice.heinz/H82ZFQPW>
Phone (audio): 1-916-562-0861
Conference ID: 85347232

Environmental DNA sequencing is a minimally invasive tool to inventory entire communities, providing important baseline biodiversity data illuminating community complexity and connectivity. In 2017, the University of California Conservation Genomics Consortium launched the California Environmental DNA (CALeDNA) program, a community science initiative to engage 1000 members of the public in natural areas eDNA research. Community scientists collect soil and sediment samples, then researchers analyze the eDNA in the samples and share results with the public via an online platform with experimental interactive tools. The results are catalogues of nearly 30,000 taxa across the preliminary ~500 samples sequenced to date, manifesting as numerous research projects and opportunities to increase eDNA literacy in formal and informal education.

In this presentation, I will describe our community science engagement methods, our DNA multiplex metabarcoding approach, and vignettes of exciting projects that demonstrate the potential of eDNA to revolutionize biodiversity monitoring.

The recordings of all webinars can be accessed at:
http://www.waterboards.ca.gov/water_issues/programs/swamp/brownbag_seminars.shtml

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